

Todd Adams

Associate Professor

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Professional Employment

- **Associate Professor**, Florida State University, 2008-present.
- **Assistant Professor**, Florida State University, 2001-2008.
- **Research Associate**, Kansas State University, 1997-2001.

Education

- **Ph.D. in Particle Physics**, May, 1997, University of Notre Dame.
- **M.S. Physics**, May, 1994. University of Notre Dame.
- **B.S. Physics**, Computer Science minor, May, 1991. Hope College, Holland, MI.

Honors, Awards, Grants

- Co-Principal Investigator - DOE Grant “High Energy Physics” grant (2002 - present)
- FNAL/URA Visiting Scholar Award (2009-2010)
- FSU Council on Research and Creativity Planning Grant (2003-2004)
- FSU First Year Assistant Professor Award (2002)
- Sigma Pi (induction, 1990)

Recent Courses Taught at FSU

- **AST 1002** Planets, Stars and Galaxies, lecture/online hybrid course, Fall 2007–2009.
- **AST 1002** Planets, Stars and Galaxies, Spring 2007.
- **AST 1002 (Honors)** Planets, Stars and Galaxies, Fall, 2004-Fall, 2006.

Research Experience

- **CERN LHC CMS Experiment**, (2006 - present).
- **FNAL DØ Experiment**, (2001 - present).
- **NuSOnG Collaboration**, (2008 - present)
- **FNAL Experiment 815 (NuTeV)**, (1997 - 2001).
- **NLC R&D**, (1999 - 2000).
- **BNL Experiment 852**, (1991 - 1997).
- **Atomic Collision Lab, Hope College**, (1988-1991).

Recent DØ Activities

- New Phenomena physics group co-convenor (2007-present)
- Computing Planning Board member (2007-present)
- Simulation group co-convenor (2006-2007)
- Monte Carlo Request Coordinator (2005-2007)
- $t\bar{t}$ cross-section and charged Higgs search in the $e/\mu+\tau$ final states (2006-present)
- Search for neutral, long-lived particles at DØ - published in PRL (2003-2006)
- Run 2b L1Cal trigger upgrade (2002-present)

Recent CMS Activities

- ECAL Software and Operations (2009-present)
- Search for heavy, stable, charged particles (2008-present)
- L3 GEN-SIM Task - Level 3 task responsible for issues that bridge MC generators, detector simulation, and analysis (2007-present)

Recent Conference Presentations

1. DPF 2009, Detroit, Michigan, July 2009.
2. Hadron Collider Physics, Galena, Illinois, May 2008.
3. Rencontres de Moriond: Electroweak Interactions, La Thuile, Italy, March 2007.
4. American Physical Society April 2007 Meeting, Jacksonville, FL, April 2007.
5. Joint Meeting of Pacific Region Particle Physics Communities, Honolulu, HI, October 2006.
6. The 13th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY05), Durham, England, July 2005.

Selected Refereed Publications

1. V. M. Abazov *et al.* [DØ Collaboration], “Measurement of the $t\bar{t}$ Production Cross Section and Top Quark Mass Extraction Using Dilepton Events in $p\bar{p}$ Collisions,” accepted by Phys. Lett. B, arXiv:0901.2137 [hep-ex].
2. T. Adams *et al.* [NuSOnG Collaboration], “Terascale Physics Opportunities at a High Statistics, High Energy Neutrino Scattering Experiment: NuSOnG,” Int. J. Mod. Phys. A **24**, 671 (2009).
3. T. Adams, “Searches for Long-lived Particles at the Tevatron Collider,” Mod. Phys. Lett. A **23**, 371 (2008).
4. M. Abolins *et al.*, “Design and Implementation of the New D0 Level-1 Calorimeter Trigger,” Nucl. Instrum. Meth. A **584**, 75 (2008).
5. V. M. Abazov *et al.* [DØ Collaboration], “Search for Neutral Long-Lived Particles Decaying into Two Muons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV,” Phys. Rev. Lett. **97**, 161802 (2006).
6. T. Adams *et al.*, “Observation of an Anomalous Number of Dimuon Events in a High Energy Neutrino Beam,” Phys. Rev. Lett. **87**, 041801 (2001).
7. T. Adams *et al.*, “Evidence for Diffractive Charm Production in $\nu_\mu Fe$ and $\bar{\nu}_\mu Fe$ Scattering at the Tevatron,” Phys. Rev. D, 092001 (2000).